

AMENDMENTS

DISCLOSURE OF THE INVENTION

A method for producing a pocket coil bag row 17 according to the present invention includes the steps of conveying and sending coil springs 2, 2' having different wire diameters, sent out from at least two or more coil spring producing apparatuses 1, 1' for respectively producing the coil springs 2, 2' having different wire diameters, into a coil chute section 3 having receiving chambers 4, 4' corresponding to the coil springs 2, 2' having different wire diameters at the side of an entrance 5, opening/closing sections 6, 6' in the lower portions of the respective receiving chambers 4, 4', and a single exit 7 for discharging the coil springs 2, 2' having different wire diameters; controlling the opening/closing of the opening/closing sections 6, 6' by selecting a destination of an opening/closing signal for deciding which of the opening/closing sections 6, 6' of the coil chute section 3 is to be opened ~~so that the coil springs 2, 2' are arranged in a previously set pattern of the coil springs 2, 2' having different wire diameters~~; sending out the coil springs 2, 2' to the exit of the coil chute section 3 in an order so that the coil springs 2, 2' are arranged in a previously set pattern of the coil springs 2, 2' having different wire diameters of the previously set pattern; and enclosing the coil springs 2 sequentially in the order of the previously set pattern by a coil spring enclosing apparatus that forms continuous bags 9 and encloses the coil springs individually into the bags 9.

An apparatus for producing a pocket coil bag row 17 according to the present invention includes at least two or more coil spring producing apparatuses 1, 1' for respectively producing coil springs 2, 2' having different wire diameters, and an apparatus for conveying the coil springs 2, 2' having different wire diameters from the

respective coil spring producing apparatuses 1, 1' to a coil chute section 3, wherein the coil chute section 3 includes a plurality of receiving chambers 4, 4' provided at an entrance 5 of the coil chute section, corresponding to the coil springs 2, 2' having different wire diameters sent from the respective coil spring producing apparatuses 1, 1', opening/closing sections 6, 6' provided in the lower portions of the receiving chambers 4, 4', and a single exit 7, a control device 8 is provided for controlling opening/closing of the opening/closing sections 6, 6' by selecting a destination of an opening/closing signal for deciding which of the opening/closing sections 6, 6' is to be opened so that the coil springs 2, 2' are arranged in a previously set pattern of the coil springs 2, 2' having different wire diameters, and the coil springs 2, 2' are sent out to the exit 7 of the coil chute section 3 in an order of the previously set pattern, and enclosed in the order of the previously set pattern individually into continuous bags 9 while forming the bags 9.

A pocket coil sheet is formed of a pocket coil bag row 17 produced by the method for producing the pocket coil bag row 17 according to the present invention, and the coil springs 2, 2' having different wire diameters are enclosed in the pocket coil bag row 17.

In a pocket coil sheet formed of a plurality of pocket coil bag rows 17 produced by the method for producing the pocket coil bag row 17 as stated in claim 1, the coil springs 2, 2' having different wire diameters are enclosed in the same pocket coil bag row among the plurality of pocket coil bag rows 17.

CLAIMS

1. (Amended) A method for producing a pocket coil bag row comprising the

steps of:

conveying and sending coil springs having different wire diameters sent, sent out from at least two or more coil spring producing apparatuses for respectively producing the coil springs having different wire diameters, into a coil chute section having receiving chambers corresponding to the coil springs having different wire diameters at an entrance side of the coil chute section, opening/closing sections in the lower portions of the respective receiving chambers, and a single exit for discharging the coil springs having different wire diameters;

controlling opening/closing of the opening/closing sections by selecting a destination of an opening/closing signal for deciding which opening/closing section of the coil chute section is to be opened ~~so that the coil springs are arranged in a previously set pattern of the coil springs having different wire diameters;~~

sending out the coil springs to the exit of the coil chute section in an order so that the coil springs are arranged in a previously set pattern of the coil springs having different wire diameters ~~of the previously set pattern;~~ and

enclosing the coil springs sequentially in the order of the previously set pattern by a coil spring enclosing apparatus that forms continuous bags and encloses the coil springs individually into the bags.

2. (Amended) An apparatus for producing a pocket coil bag row comprising:
at least two or more coil spring producing apparatuses for respectively producing coil springs having different wire diameters; and
an apparatus for conveying the coil springs having different wire diameters from the respective coil spring producing apparatuses to a coil chute section, wherein the coil chute section includes: a plurality of receiving chambers provided at an

entrance of the coil chute section, corresponding to the coil springs having different wire diameters sent from respective coil spring producing apparatus, opening/closing sections provided in the lower portions of the receiving chambers, and a single exit,

a control device is provided for controlling opening/closing of the opening/closing sections by selecting a destination of an opening/closing signal for deciding which opening/closing section is to be opened so that the coil springs are arranged in a previously set pattern of the coil springs having different wire diameters, the coil springs are sent out to the exit of the coil chute section in an order of the previously set pattern, and enclosed in the order of the previously set pattern individually into continuous bags while forming the bags.

8. (Amended) A pocket coil sheet formed of a pocket coil bag row produced by the method for producing the pocket coil bag row as stated in claim 1, wherein the coil springs having different wire diameters are enclosed in the pocket coil bag row.

9. (New) A pocket coil sheet formed of a plurality of pocket coil bag rows produced by the method for producing the pocket coil bag row as stated in claim 1, wherein the coil springs having different wire diameters are enclosed in the same pocket coil bag row among the plurality of pocket coil bag rows.